

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S1    | 270  | (348/283,305,317,320).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2003/12/30 13:31 |
| S2    | 141  | ((348/283,305,317,320).CCLS.)<br>and interlac\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2003/12/30 14:20 |
| S3    | 16   | ((((348/283,305,317,320).CCLS.)<br>and interlac\$3) AND horizontal adj<br>register  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2003/12/30 14:21 |
| S4    | 40   | ((((348/283,305,317,320).CCLS.)<br>and interlac\$3) AND horizontal adj<br>transfer  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2003/12/30 14:21 |
| S5    | 121  | ((((348/283,305,317,320).CCLS.)<br>and interlac\$3) and horizontal  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2003/12/30 14:20 |
| S6    | 42   | ((((348/283,305,317,320).CCLS.)<br>and interlac\$3) and horizontal)<br>and (4-phase or four-phase of four<br>adj phase or "4" adj phase)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2003/12/30 15:54 |
| S7    | 14   | ((((348/283,305,317,320).CCLS.)<br>and interlac\$3) and horizontal)<br>and ((4-phase or four-phase of<br>four adj phase or "4" adj phase)<br>with horizontal) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2003/12/30 14:14 |
| S8    | 216  | ((348/283,305,317,320).CCLS.)<br>and horizontal   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2003/12/30 14:20 |
| S9    | 32   | ((348/283,305,317,320).CCLS.)<br>AND horizontal adj register  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | OFF     | 2003/12/30 14:21 |

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| S10 | 75      | ((348/283,305,317,320).CCLS.)<br>AND horizontal adj transfer  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:36 |
| S11 | 96      | ((348/283,305,317,320).CCLS.)<br>AND horizontal adj register ) or<br>(((348/283,305,317,320).CCLS.)<br>AND horizontal adj transfer) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:21 |
| S12 | 427     | horizontal adj transfer adj register  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:50 |
| S13 | 11      | (horizontal adj transfer adj<br>register) and (interlac\$4 and<br>progressiv\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:38 |
| S14 | 11      | (horizontal adj transfer adj<br>register) and interlac\$4 and<br>progressiv\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:40 |
| S15 | 4541    | horizontal adj (transfer or register)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:41 |
| S16 | 1120    | (horizontal adj (transfer or<br>register)) and phas\$2  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:42 |
| S17 | 233     | ((horizontal adj (transfer or<br>register)) and phas\$2) and<br>interlac\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:42 |
| S18 | 34      | ((horizontal adj (transfer or<br>register)) and phas\$2) and<br>interlac\$4) and progressive  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:43 |
| S19 | 1307521 | horizontal  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:51 |

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| S20 | 149152 | horizontal and phase\$2  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:57 |
| S21 | 5287   | (horizontal and phase\$2) and<br>interlac\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:51 |
| S22 | 1043   | horizontal and ((2-phase or "2" adj<br>phase or two-phase or two adj<br>phase) and (4-phase or "4" adj<br>phase or four-phase or four adj<br>phase))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 14:59 |
| S23 | 68     | horizontal with ((2-phase or "2"<br>adj phase or two-phase or two adj<br>phase) with (4-phase or "4" adj<br>phase or four-phase or four adj<br>phase)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 15:28 |
| S24 | 391    | (four and two and phase) .ti.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 15:30 |
| S25 | 4      | ((four and two and phase) .ti.)<br>and horizontal  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 15:30 |
| S26 | 161    | (four with two with phase with<br>horizontal)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 15:44 |
| S27 | 27     | (four with two with phase with<br>horizontal with register)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 15:31 |
| S28 | 4      | ("4541010"   "4761682"  <br>"4876590"   "5374955").PN.   | USPAT   | OR | OFF | 2003/12/30 15:41 |
| S29 | 2      | "5485204".URPN.  | USPAT   | OR | OFF | 2003/12/30 15:41 |
| S30 | 9281   | (four with two with phase)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/30 15:44 |

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| S31 | 1919 | ((four with two with phase) ) and register  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2003/12/30 15:44 |
| S32 | 11   | (4-phase or four-phase of four adj phase or "4" adj phase) adj horizontal   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2003/12/30 15:57 |
| S33 | 80   | (4-phase or four-phase of four adj phase or "4" adj phase) adj (horizontal or vertical)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2003/12/30 15:57 |
| S34 | 0    | "20020118291".URPN.   | USPAT   | OR | OFF | 2003/12/30 16:04 |
| S35 | 1    | "4071853".PN.   | USPAT   | OR | OFF | 2003/12/30 16:08 |
| S36 | 0    | "6426493".URPN.   | USPAT   | OR | OFF | 2003/12/30 16:09 |
| S37 | 10   | ("3932775"   "4016598"  <br>"4280141"   "4603426"  <br>"4680637"   "4814648"  <br>"5038369"   "5060072"  <br>"5249055"   "5379068").PN. | USPAT   | OR | OFF | 2003/12/30 16:13 |
| S38 | 3    | "5591660".URPN.   | USPAT   | OR | OFF | 2003/12/30 16:14 |
| S39 | 2    | ("4472638").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/12/31 13:56 |
| S42 | 2    | ("5555464").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/05 15:05 |
| S43 | 3    | ("5485004").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/05 15:05 |
| S44 | 2    | ("5943514").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/05 15:06 |
| S45 | 2    | ("4587416").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/05 15:06 |

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| S46 | 292 | (348/283,305,317,320).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S47 | 147 | ((348/283,305,317,320).CCLS.)<br>and interlac\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S48 | 16  | (((348/283,305,317,320).CCLS.)<br>and interlac\$3) AND horizontal adj<br>register  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S49 | 44  | (((348/283,305,317,320).CCLS.)<br>and interlac\$3) AND horizontal adj<br>transfer  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S50 | 127 | (((348/283,305,317,320).CCLS.)<br>and interlac\$3) and horizontal  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S51 | 44  | (((348/283,305,317,320).CCLS.)<br>and interlac\$3) and horizontal)<br>and (4-phase or four-phase of four<br>adj phase or "4" adj phase)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S52 | 14  | (((348/283,305,317,320).CCLS.)<br>and interlac\$3) and horizontal)<br>and ((4-phase or four-phase of<br>four adj phase or "4" adj phase)<br>with horizontal) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S53 | 236 | ((348/283,305,317,320).CCLS.)<br>and horizontal  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S54 | 33  | ((348/283,305,317,320).CCLS.)<br>AND horizontal adj register   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S55 | 86  | ((348/283,305,317,320).CCLS.)<br>AND horizontal adj transfer   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |

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| S56 | 107     | (((348/283,305,317,320).CCLS.)<br>AND horizontal adj register ) or<br>(((348/283,305,317,320).CCLS.)<br>AND horizontal adj transfer) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S57 | 482     | horizontal adj transfer adj register   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S58 | 14      | (horizontal adj transfer adj<br>register) and (interlac\$4 and<br>progressiv\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S59 | 14      | (horizontal adj transfer adj<br>register) and interlac\$4 and<br>progressiv\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S60 | 5168    | horizontal adj (transfer or register)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S61 | 1339    | (horizontal adj (transfer or<br>register)) and phas\$2   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S62 | 265     | ((horizontal adj (transfer or<br>register)) and phas\$2) and<br>interlac\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S63 | 43      | (((horizontal adj (transfer or<br>register)) and phas\$2) and<br>interlac\$4) and progressive  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S64 | 1466416 | horizontal   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S65 | 178607  | horizontal and phase\$2  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |

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| S66 | 6112  | (horizontal and phase\$2) and interlac\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S67 | 1322  | horizontal and ((2-phase or "2" adj phase or two-phase or two adj phase) and (4-phase or "4" adj phase or four-phase or four adj phase))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S68 | 81    | horizontal with ((2-phase or "2" adj phase or two-phase or two adj phase) with (4-phase or "4" adj phase or four-phase or four adj phase)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S69 | 399   | (four and two and phase) .ti.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S70 | 4     | ((four and two and phase) .ti.) and horizontal   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S71 | 179   | (four with two with phase with horizontal)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S72 | 28    | (four with two with phase with horizontal with register)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S73 | 4     | ("4541010"   "4761682"   "4876590"   "5374955").PN.  | USPAT   | OR | OFF | 2005/07/07 11:41 |
| S74 | 4     | "5485204".URPN.  | USPAT   | OR | OFF | 2005/07/07 11:41 |
| S75 | 10718 | (four with two with phase)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S76 | 2126  | ((four with two with phase) ) and register   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |

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| S77 | 14  | (4-phase or four-phase of four adj phase or "4" adj phase) adj horizontal   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S78 | 100 | (4-phase or four-phase of four adj phase or "4" adj phase) adj (horizontal or vertical)                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S79 | 0   | "20020118291".URPN.   | USPAT   | OR | OFF | 2005/07/07 11:41 |
| S80 | 1   | "4071853".PN.   | USPAT   | OR | OFF | 2005/07/07 11:41 |
| S81 | 3   | "6426493".URPN.   | USPAT   | OR | OFF | 2005/07/07 11:41 |
| S82 | 10  | ("3932775"   "4016598"   "4280141"   "4603426"   "4680637"   "4814648"   "5038369"   "5060072"   "5249055"   "5379068").PN. | USPAT   | OR | OFF | 2005/07/07 11:41 |
| S83 | 3   | "5591660".URPN.   | USPAT   | OR | OFF | 2005/07/07 11:41 |
| S84 | 2   | ("4472638").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/07 11:41 |
| S85 | 2   | ("5555464").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S86 | 3   | ("5485004").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S87 | 2   | ("5943514").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |
| S88 | 2   | ("4587416").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | OFF | 2005/07/07 11:41 |